Page 1(1)

11-Jan-1996 13:28

CetRequest(Connection \*c. verb v.
CetRequest(Const char \*requestText.
const sockeddr ins from) |
Request(c. v, requestText, from) ( )

virtual void marvice(),

ass CetRequest i public Request

nclude "request.h"

( idelined(\_CETAEQUEST\_H\_)
e(ine \_GETAEQUEST\_H\_

FAEGUEST.M getrequest.h void sendiDatabases db. Ad \*ad, User \*ul;

-:-

DX 50

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16-Sep-1995 13:39

// remembered.h

//

// rememberSand (Ad and, User 'u, const char 'fromDoc')

// returns Ad 10

// returns Ad 10

// returns Ad 50

Page 1(1)

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HIGHLY CONFIDENTIAL DC 069486

01-Jen-1996 14:24 extern int barter, landev, testAd/ extern int adaSent;
extern int yumpTaken;
extern int totalAdSendiatenCy;
extern int timeOuts;
extern int timeOuts; vold setStatus(const char 's)!

// status.h FIATUS.N

Page 1(1)

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Page 1(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void sendError(Connection 'c, const char 'mag, const char 'headerPield = 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protected:
BOOL sendFile(const char *fileName, const char *insertStr * 0):
               03-Jan-1996 17:04
                                                                                                                                                                                                                                                                                                                                                                      DWOND get1P() const ( return user1P1 )
const char' getRequest() const ( return I
consection' getConn() const ( return cr )
                                                                                                                                                                          enum Verb ( UNKNOWN, DET, HEAD, POST )!
                                                                                                                                                                                                                                                                           public:
Request(Connection ·c., Varb v.
const char •requestText.
const cockaddc_ink from);
                                                                                                                                                                                                                                                                                                                                                                                                                                        void sendinternal Brror(),
                                                                                                                                                 sinclude "/d/toolkit/sock.h"
                                                                                                                                                                                                                                                                                                                                               virtual void service():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Connection "C!
Const chaf 'request!
Vorb v!
Cstring LileMamo!
DWGND weeriP!
                                                                                                       sit idefined(_mcquksT_H_)
sdefine _mEQUEST_H_
                                                                                                                                                                                                                class Connections
                                                                                                                                                                                                                                                class Request
                                                                  // requast.h
                                H.TETUDIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 fends
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Page 2(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      --:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clec iff strucmpluserAgent, .nolbrowser/", 101 -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clam iff userAgent, Left (16) ** *Enhanced_Hossic/* ) {
    browser * brEnhancedMossic/* ) if(tvef([const.char *) userAgent * 16);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // OS
anchios, userAgent, "windows", osWin);
matchios, userAgent, "Xii", osUnixUnknown);
matchios, userAgent, "X Window", osUnixUnknown);
matchios, userAgent, "X Window",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clse iff strncmp(userAgent, .iwENG/*, 6) .. 0 ) {
    browser - brAOL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else if userAgent.Le[t[i]] .. "MatCruiser/") (
lityer(lconst cher.) userAgent . 11);
browner - brhetCruiser;
os - osMin;
                                                                                                          // derive information about the user from the request header
//
void UseriiheaderDerive(const char *requestHeader)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  clse if userAgent.Left(12) .. *NCSA HOSSic/* ) {
   browser - brNCSA;
   iiftVor{(const char *) userAgent * 12);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     os - OsMin32;
matchios, uscrAgent, -Windows 95°, osWin951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         else iff userAgent.Left(8) .. "HotJava/" } {
browser - brhotJava;
            10-Dec-1995 17:31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       liftveriftconst that ') userAgent , 81;
                                                                                                                                                                  liftVerificonst char .) userAgent + 11);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   uniqueness - uNo!
domainType - dtAOL!
liftVgr([const_char -) userAgent - []!
                                                                                                                                                                                                                                                                                                                                        CString userAgent(us. p - us);
[if userAgent.Left[is] -- "Hozilla/" } {
broaser - brweiscape;
[iftVerifconst.cher -) userAgent - B);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   os - oswin;
if usergent.Find("win3") >- 0 }
os - oswin32;
                                                                                                                                                                                                                                                                                                       const char *p * strehr(us, '\r')!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          uniqueness . uNos
domainType - dtAOLs
                                                                                                                                                                                                                                                                                                                                                                                                                             browser - bradt:
                                                s .. userAgent.Laft (70),
messaga(s);
                                                                                                                                                                                                                                                                                 un -- 11:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    os . Oskini
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09 - 08MAC!
                                                                                                                                                                                                                                                                       clse (
                              HEADER. CPP
                                    Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 static void match (054 os, const char *userAgent, const char *pat, 09 o)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                             book Useriicheck (CStringk userAgent, const char "pat, Browser b. 05 o)
```

vold User: 11ft0S(const CString& userAgent)

iff stratr(userAgent. par) is 0 }
os = 0;

else if! userAgent.Pind("13bit") >= 0 ||
if userAgent.Pind("13bit") >= 0 ||
userAgent.Find("95") >= 0

06 - 04Min)21 08 - 05Win16/

20-Dec-1995 17:31

const char cBrowser() . "User-Agenti";

void message (const cher ')!

sincluda \*stdafa.H\* sincluda \*objecte.h\* sincluda \*/d/toolkit/laf\_util.h\*

// header.cpp MEADER. CP?

int i - etrienspath
is userAgent.Loss(il -- pat ) (
browsef - bi

ice browser i. brunknown ) return FALSE;

os . Or . userAgents

p - 1, 

return TRUE,

return PALSEs

DC 069489

else If( userAgent.Pind(\*MacIntosh\*) >= 0 } {
os osMac?
satchlos, userAgent, \*PPC\*, osMacPPC);
satchlos, userAgent, \*e8K\*, osMac68);

else iff userAgent.Find["Wint6"] >= 0 ] {
os = osWint6; else if ( userAgent.Pind("Win95") >= 0 ) (

else iff userAgent.Pind("WinNT") ... 0 ) {

ļ

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Page 1(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if( country == 256 ) {
   if | country == 256 | {
        if | igetStateTimeLoneInfo(atate, utc_offeet, daylight_blae) }
        return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ifi ide.daylightSavings && daylight_bise i* TE_BIAS_UNDEPINED | ettime ** daylight_bise ** 60 ** 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // if timeRelative == 0, this assumes that they want the time // if timeRelative to the current time crtiss - timeRelative; if (ittime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    olse (
books) dubiser
Lid impCountryTimeZones.Lookup(country, dubise)
Lid impCountryTimeZones.Lookup(country, dubise)
return FALSE,
                   23-Dec-1995 11:01
                                                                                                                                                                                                                                                                                                                                                                                                                          tm. Location: usarhelative fime! time_t timeRelative )
{
                                                                                                                                                                                                                                                                                          TIME_ZONE_INFOPMATION 1/
DWORD r = GetTimeZoneInformetion(&1)!
daylightSavings = r == Time_Zone_ID_DayLight!
                                                                                                                                                                            // next line should be in trutil.h
extern CountrylimeZoneMap mapCountryTimeZones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       trilme .. utc_offset . 60 . 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       utc_offeet - LOWORD(dwBlae);
daylight_blae - HIWORD(dwBlae);
                                                                                            sinclude *stdefm.N*
sinclude *objects.N*
Finclude */d/toolkit/kmppstate.h*
sinclude */d/toolkit/trutil.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else iff country -- 0 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return gmtime(åttfima),
                                                                                                                                                                                                                                        etruct lebaylightSavings
                                                                                                                                                                                                                                                                                                                                                                                   DOOL daylightSavings!
                                                                                                                                                                                                                                                                          jeDaylightSavinge ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          time (attima) s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int utc_offeet, int daylight_biss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      bing_t ttfimes
                                                                     // location.cpp
                                    LOCATION. CPP
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.. ; ege 1(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - -: .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // if a user record already exists. it's probably because // this IP address is ahared with other users (proxy, IP pool. // etc.) So, we want to create another record; we don't want // to assign the same coolie to different people! u-vuserIO - 0: // create new record
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // adjust constant as traffic increases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // sends) should commit the OD If it does any DB operations because // the caller commits altead of time so that the transaction won't // remain open while the file is sent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Normally we adjust 51 for an ad an it is delivered.
// However, occasionally should do all ads in case one hasn't
// See delivered but time has passed.
static inc counter!
// Adjust constant as traffic incre
                                                                                                                                                                                                                                                                                                                                      if( //mtrchrip. '/') -- 0 is strchrip. '\\') -- 0 is strchrip. '\\') -- 0 is strchrip. '\\') -- 0 is
             16-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vold GetPequest::sendiDatabases db, Ad .id, User 'u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff u-scookiaCapable() at in-stimedOut )
                                                                                                                                                                                                                                                                                 if( 'pp -= 0 ) {
    // send default
    sendFile("c:\\isn\\html\\default.htm");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // recalc SI for all ads
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // generate a cookie for the uner
                                                            else Iff (lleNamo.Left.[9] .. ./sysstato" ! (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // try again acon
                                                                                                                                                                                                                                                                                                                                                                                               CString ( - .c.//ian//htmi//'
                                                                                                                           const char 'p . [ileName; ... o i { if ( arratemp[p. '/java/'. 6] ... o i | [ [ strater[p, '...] ... o i | aendFile[p];
                                                                                                                                                                                               sendErroric. *404 Hot Found")!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        senderroric. *404 Not Found*1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   iff adb 1. 0 ) {
iff tu-shasCookle ) {
                                                                                                                                                                                                                                                                                                                                                                                                                            ( .. p;
sendfile(();
return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CString hdr . cHeaders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     const SUFSIZE . 32000,
char but (bursize),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  counter . 175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             It allFreeti ! (
                                                                                                                                                                                                                                                 1 ./. - 4. 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cookie sendCookies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             recalc51 ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Counter . 01
Crit c(fast),
                                                                                                                                                                                                                                                                                                                                   retutal
                                                                                        sysState(),
                                                                                                                                                                                                                                                                                                                                                  c | 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90 (
                                                                                                                                                                                              0196
                              GET REQUEST. CPP
                                                                                                                                                                                                                                              - 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HIGHLY
                                      Page 1(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else iti tilahame.Lett(8) ... '/viovad/'') {
CString esfilename!
esfiletame pormat ( c./ien/ade/ie', (LPCTSTR)(ileName:8);
                                                       10-Jan-1996: 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // This used to prevent multiple concurrent FTP
// requests right now because our FTPD implementation
// only dose one at a time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else [[[ [llowame.Left[10] -- "/sondinto" ] [
sendinfoltconst cher ") [lleHeme - 10]]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      [lleName - Carringiraquest, p - requestir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 eakeJumpi(const char ) (10mp/ ) (10mp/ ) (10mp/ char) (110kham chair) (110kham chair)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             const char 'p a strchrirequest, ' ')!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sendadiconst char's (ilohamo, sendadiconst char's) (ilohamo, sendadiconst char's (ilohamo, sendiconst char's (ilohamo, sendiconst char's (ilohamo, sendiconst char's) (ilohamo, sendiconst char's)
                                                                                                                                                                                                                                                                                                                                                                                                                                              extern const char 'browserNames(),
                                                                                                                                                                                                         include getrequest.h.

include rememberad.h.
include o'd/toolkit/iaf_util.h.
include o'd-toolkit/crit.h.
include o'd/toolkit/db.h.
include o'd/toolkit/db.h.
include o'd/toolkit/dbutil.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          const that 'prognams - 'AdSvr',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DWORD startLatency, endLatenCy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sendfile( safileName );
                                                                                                                                                                                                                                                                                                                                                       extern CriticalSection (ast: //extern Database isfmain:
                                                                                                                                                                                     •/d/toolkit/sock.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        void message(const char *)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void CetRequest::sarvice()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ilename - request)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXCERN HANDLE (EpHUTER)
                                                                                                                                                                                                                                                                                                                                                                                                      extern ofstream arriogs extern int activitys
,
                                                                                                                                            .atdefa.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void receives () ,
                                                                                             ,/ getrequest.Cpp
                                                                       GETARQUEST. CPP
                                                                                                                                                 include.
```

```
// [iii content
test «« «shtml»kody bgcolor-ifffff*khl>«ind SRC»\"ianlogos.gif\" ALIGN»\"BOTTON\">User In»
test « «spra»"!
10) + 644
                                          test <<pre>test <<pre>test <<pre>test <<pre>test <<pre>test 
test <</pre>
test <</pre>
test <</pre>
test 
<pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            User 'user . UseriilookupUser(userIP, request, fALSE)?
                                                                                                                                        // Get a db connection to lock the ada array so that
// it isn't reloaded or anything while we are processing.
Database "db " getfromfool(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Umer *umer • Umer:1100kupUmeridb, umarif, requent);
umar:100kupAncilleryin(o(db);
                  18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          e-swritel (const char *) hdr. hdr.GetLengthil );
e-swritelbul, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         c-swritei (const char *) hdr. hdr.GatLength() );
c-swrite(buí, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // diagnostic
void GetRequest::jumpingWhere(const char 'from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int n . taat.pcount[];
chartemp[100];
[Losdin, temp. 10]; // content length
lidr v. temp!
lidr v. *\text{r\n'};
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                stratream text(but, 32000, losilout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          user-sdescribe(db. text);
text et */prese/bodyse/htmls*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database Adb . *getfromfoolil!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ASSERT(FALSE):
// (ix for multi-db conns
                                                                                                                                                                                                                                                                                                                                                                                                                                                           text << *</td>
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text <</td>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int n . text.pcountil;
char tempilool;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     delete user;
releaseToPool (4db) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     itos (n. temp. 10);
hdr -- temp!
hdr -- \r\n\r\n'!
                                                                                                                                                                                                                                                                                                                                                                                                                           relesseToPool (db)
                                      GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HIGHLY
                                            Page 1(8)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -\r\nSet.Cookie: 1AF-Niz; path-/; expires-Med, 09-Hov-99 23:59:00 GMT*, sendCookie.value);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DC 069493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // release DB here so that we don't keep a db connection oncupied by thise sending the ad db.commit!! I releaseToyool(4db)!
                                                                                                                                                                                                                                                                                                                                          CFile ()

int n = 0;

if ( = 0.07 ) {

CERTING = -ad-s(ullHame());

if (I.Open(e, CFile.modeRend | CFile.mhareDenyWrite) } {

if (I.Open(e, CFile.modeRend | Open e) e = 3;

eassage (CERTING)*COULDN** Open e) e = 3;

FRACET*COULDN** Open %*\n**, (const char *) =);

ASSERT(FALSE);
                                                                18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c-swittel (const char *) hdr, hdr.GatLength() );
iff v -- GET )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             n - gotylleSizot ed-stullMome() );
// mest line is a test for MCSA Hossic HEAD
//n = 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // last-modified time
// hdr .. \r\nLast-Hodified: . . curMTTPTime():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   etretream text (buf, 32000, logitout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     u-shasCookie • TRUE;
u-saakePermanent(db);
aendCpokle.velue • u-sgetiD[);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         n . f.Read(buf, BUFS12E);
ASSERT( n 1. 0 && n 1. BUFS12E );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        //test //thPragmai-do-cache*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        endlatency . GetTickCount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c-purite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hdr .. .\r\n\r\n'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -lan Dev 1:
```

hdr .. tempi

return

6180

CETARQUEST. CPP

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rage 6(0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cursor c(*db);
c-bind1801_C_LONG, tadvertiserID;
c-bind1801_C_long, tadvertisers where sitekey-';
chr sqli034| - 'select id from advertisers where sitekey-';
addvalue(sql, sitekey, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        umer - UmeriilookupUmerfidb, umerlh, request, TPUE, TPUE)
iff Ub -- 0 |
page - 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database "db "getfrombob!!!

Database "User:ilookupUser!'db. user!f. request!!

Dwopp advertleerib "0!

// codo: fix if not assigned a user ID. (use IP!)

// codo: fix if not assigned a user ID. (use IP!)

// codo: fix if not assigned a user ID. (use IP!)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-Jan-1996 17:12
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from ... 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    void GetRequastiisendAdiconst char ifrom)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Database .db . getFromPoolTimcout!);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Const char q strehrlp. ''ll
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nitekey . Cstringip. 9 · pl:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              static DMOPD lastFTP;
startLatency - GetfickCount(1;
                                                                                                                                 type - infoRequest:
break:
case 's':
type - Sale:
break:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OK . C. (etchNext(),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      delete user!
relesseToPool (db) ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                User *user:
SitePage *page:
Ad *ad:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              db-scommit ();
                                                                                                                                                                                                                                                                                                                                    default:
ok - FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 - 40 E
                                                                      OETAEQUEST. CPP
                                                                                       Page 5(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CString hdr - *** GONYTINCONTENT.Type: text/htmllrinPragma: no-cechelrinContent.Length: "; char buf12000):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tast es 'apres';

tast es 'jumping from document: es from es '\r\n';

tast es 'jumping from document: es from es '\r\n';

tast es hrefa\" es (const char e) ad-syumpto es '\r\n';

es 'es hrefa\" es (const char e) ad-syumpto es '\r\n'r\n';

es (const char e) ad-syumpto es '\r\n'r\n'r';

es (const char e) ad-syumpto es '\r\n'r\n'r';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HIGHLY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             SitePage 'page - SitePage::lookupPage(from, request):
                                                                                                                    18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c.swritel (const char *) hdr. hdr.GetLengthil l:
c.swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold GetRequest.ihetlivity(const cher *ectlvityStr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // go sheed and send for bast response time sendrile(*c:\\lan\\html\\dot.gif'),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // fill content // fill content // fill content // fill // fill content // fill // fil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 void GetRequest..sendFrame(const char '(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            char templicoir
iteain, temp. 1011 // content langth
hdr o tempi
hdr o - \text{Valve}(n)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              etratream text (buf, 32000, tom: cout) ;
                                                                                                                                                                                                                    Ad .ad . AdiifindSentfoluser, from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   test 44 *4/pres4/bodys4/htmls*1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CString in a dostileName;

text of "centeroding arc-\-/"

to text of tex
                                                                                                                                                                                                                                                                                                   1411 //
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // send the file first
ActivityType type:
CString siteMey/
BOOL ob - TRUE/
evitch( sectivityStr )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Case 'a'.
Lype - interest!
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       logJumplad, user, page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int n . test.pcount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BOOK DAG - FALSE!
                                                                                                                                                                                                                                                                                                   ) ( o -- pe ) ( de lete usern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          delete page;
delete ad;
delete user;
                                                                                                                                                              GETALOUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                   return
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . .. 1481
```

```
waprintfibul. "no lamap 1d: 1s", user -- 0 7 999 ; (int) user->browser, (const char *- message(bul);
Page 1(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - = :_
                                                                                                                                                                                                                                                                                  User "user . UseriilookupUseridb, wserif, request, FALSE!;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ad .ad . AdııfindSentToluser, from):
SirePage *page * SirePagerılookupPage(db. from, request):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Must do this so activity will be logged properly.
// See GetPequest.iactivity().
user.smakePermanent(db):
            18-Jen-1996 17:12
                                                                                                                                                                                                                                                                                                                iff from is stratemplifrom, "www.", 41 .. 0 )
                                               adsendlimeMax (endSend - mtartLatency);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           s .. '\\n'; sendError(c, ")01 Moved Permanently", 8);
                                                                                                                                                                                  vold GetPequestiitakeJump(const char '_from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         from . CString(_from, p · _from):
                                                                                                                                                                                                                                                                                                                                                                                                 const char .p . strchr(_{rom. '?'):
it( p -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ///(cs.leave())
CString s - Location: ";
s -- ad-sjumpTor// - "?(rom-ist";
                                                                                                                                                                                                                   Database Adb . "getfromPool();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   logJump(ad. user. page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      delete page:
delete ad;
delete user!
db.commit(!);
releasetoPool(&db);
                                                                                                                                                                                                                                                     // jumpingWhere(from);
// return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        //L.cs.enter();
                                                                                                                                                                                                                                                                                                                                                                               CSering (rom!
                                                                                                                   // delete ad:
delete page:
delete user:
                            GETREQUEST. CPP
                                    Page 7(8)
```

erriog et "frying FrP\n"; erriog et " user" et user->getib() et '\n'; erriog et " browser" et browserwames[(int) user->browser] et '\n'; erriog et " url " et s et '\n';

a .. '\r\n'; soz Moved Temporarily', s};

VERIFY! ReleaseMutex((tpMutex) )?

logadSend(ad. user. page)!

db-scommit () / releaseToPool (db) / erriog.flush();

900L dofTP - luser-stempUserObject() &&
iuser-stepTried && user-suniqueness >- usikely && luser-spfpxy &&
rand() < randCutoff && (startLatency - lastFTP > 6000);

static int randCutoff - 0, //RAND\_MAX / 4,

// iff v .. GET) {
// TRACE("get Ne\n", from):
// )

18-Jan-1996 17:12

page . SitePage::lookupPage(\*db, from, request):

CITTA EQUEST. CPP --- ad . AdiigatAd (.db. user. page, v .. GET) ;

dw . wait For Single Object (It phutes, 0), dw . wait Timtout ) {

// Nemember that we're doing FTP for user. Only do once. user-sitpTried - TRUE: user-supdateFTFTied('db):

lastFTP . startLatenCy!

waprintf (buf. "11x", user-sgatiD(1);

CBrring in . ad.>getPileName();

# HIGHLY CONFIDENTIAL

## DC 069495

t Imedutar !

// this function calls releaseToPool()

// update Si every 4 or so deliveries

//(.ce.leave();
send(db. ad. user);
//(.ce.enter();
i(! v - GF);
sett[c lht counter;
i(! o.counter 4 2 )
ad-scalcgi();

.

```
16-Jan-1996 18:10
                                                                                                 Advantis*,
-Concentric Pessarch Corp.*,
-CRL*,
-WKI*,
-Portal Information Hetwork*
                                   0,0,0,0,0,0,0.0.
                                                                                                                                            const char .salesStr[] . {
                                                           const char .iSpnameall - (
                       -Coulo_.
       OBJECTS.CPP
          Page 1(9)
                                                       .....//
                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DC 069496
                 16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                               const char euniqueNames[] • {
.unknown., .wo., .unikely., .Likely., .ves.
                                                                                                                                                                                                                                                    Const char .browserMammes!! . (
                                                                                                                                                                        ractruiser.
- ibu wobEaplorer.
- Aid woesic/Spry Mossic.
- wacwab.
- wetwanage Chemeleon.
                                                   linclude .etdefa.h.
                                      // objects.cpp
                         OBJECTS.CFP
```

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Page 4(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          w.emil = emilAddr/
w.i.pulEmili);
if in.idomain.isEmpty() | {
cher sql[1024] = "select gender.fname1.iname1 (rom listings where emaliname-"/
addwluefs[i] = "select gender.fname1.iname1];
addwluefs[i] = "select gender.fname1];
atreat (rql = "and domain" FALSE);
addwluefs[i] = "i.domain. FALSE);

<
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                         void Userridescribe (Databases db. atratreams text)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    os · ostuknown;
domaintype · dtunknown;
// forf int i · 0; i · MAXSICS; i · ·
siccodes[i] · 0;
                                                                                                                                                                                                                                                                                                                                                                                       gender " 'I IsEmpty() ) (

I( | lemailAddr.isEmpty() ) (

I/ get name/gender

Cursor club) !

Cstring 9,(, !) !
                                                                                                                                                                                                                                 JsNotworkDescription - FALSE, (tpTried - FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          text ec ebsosi
text ec ebsosi
text ec ebsosi
text ec ebsproxy;
text ec ebsosi
text ec ebsosi
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text ee "chaster code:
text ee "chaster code:
text ee "chaster code:
                                                                                                            uniqueness . uUnknown:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ee .ebsunique:
                                                                                                                             ip - 0;
browser - brUnknown;
bveri - bver2 - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               capiname)
                                                                                                                                                                                                                                                         hasCookie - FALSE
                                                                                         timedout . FALSE:
                                                                                                                                                                                                                  ealesVolume - 0/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  db.comit (1)
                                                                                                                                                                                                        nEmployees . 01
                             raturn userID:
                                                                                                                                                                                                                          proxy . FALSE!
                                                                 User: User()
{
              OBJECTS. CPP
                  PAge 3(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CONFIDENTIAL
                            16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DC 069497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // todos add new version of internet Explorer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void UseriiderivabonsintypafromBrowsar()
{
                                                                                                                                                                                                                                                                                                             sinclude */d/cooksis/lat_util.h*
sinclude */d/cooksis/db.h*
sinclude */d/cooksis/dbutil.h*
sinclude */d/darive/aidarive.h*
sinclude */d/newadarive/sig.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bVerl > 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sooil VagriicooklaCapable () const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     case brbelphi.
domainType - dtDelphii
breaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             case brerodigy:
domainType - dtProdigy:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           case brivoridi domaintype . dt Evoride
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ewitchi browser ! (
case brack:
domainType - dtAck:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DWOPD USET!:GELTD() CONSC.
                                                                                                                                                                                                                         #1f idefined(_JUSTSTRINGS)
                                                                                                                                                                                                                                                                                                                                                                                                                 extern Ad *badkayErrorAd,
                                                                                                    const cher .dowStril - {
                                                                                                                                                                                                                                                                                                                                                                                               estern ofstream erriogi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         extern Ad .defaultAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             sic idetined(_DERIVE)
int nAde();
                                                                                                                                                                                                                                                                                                                                                                                                                                          int nextAd . 0:
                                                         *10pm-11pm*.
                                                                                                                  Sunday.

'Monday.

Treeday.

Thursday.
                                                                                                                                                                                    .Saturday
```

OBJECTS.CPP

;

```
*select domain_type, sales, num_employees, nic, country, state, xipcode, areacode from networks.
(c) 7 -0-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          etropy(buf, "eelect country, state, zipcode, areacode [rom networks where netnumber-");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cursor c(db);

it( domainType = dtAOL ) {
    (if domainType = dtAOL), domainType, sireot(domainType));
    c.bind(SOL_C_LONG, &domainType, sireot(saleaVolume));
    c.bind(SOL_C_LONG, &saleaVolume, sireot(saleaVolume));
    c.bind(SOL_C_LONG, &nEmployees, sireot(nEmployees));
    ind(SOL_C_LONG, &nEmployees, sireot(nEmployees));
    sircodes.bind(SOL_C_LONG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . // Hoter do the following for all domain types to at least get country.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            c.bind(SQL_C_LONG, alocation.country, sizeo(llocation.country));
c.bindliocation.state);
c.bindliocation.zipCode);
c.bind(SQL_C_LONG, blocation.arcaCode, sizeo(llocation.arcaCode));
f(l timedout != 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       iff uniqueness -- uUnknown && (int) domainType >- (int) dtAOL )
uniqueness - uUnikely;
                                                                                                                                                -select interest level.category name (fom interests.user_interests) where interests.id-interest id and user id-lid\ order by interest.id-vel DESC. userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nEmployees • 0;
sicCodes.makeNull[];
if domainType i• dtNetcom & domainType i• dt1SFOther ] {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if isplay, location and males, etc. don't apply. It isplay, location and males, etc. don't apply. It we have done a tracert, location does apply.
                                                                                                                                                                                                                                                                                                                                                                        void Userii_getHetworkInfo(Databases db, 800L ·timedOut)
          16-Jan-1996 18:10
                                                                                                                                                                                                                                                                    text or category or . . or dead or .\r\n"!
                                                                              tlevel. 4);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iff domainType to dtUnknown ? [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lif domainType > dtAOL ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            streat ( buf. m.sqlStr() );
                                                                                                                                                                                                                      while ( c.fetchweat () ) (
                                                                                                                                                                                                                                               char buf [32]: vsprintf (buf. *1141d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NetworkNumber Di
n - justHetworkNumber(1p);
                                                     Cursor c(db):
c.bind(SQL_C_LONG, c.bind(Category):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .t imedout - TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C. BELTIMEOUT (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          c.exec(bu();
if( c.timedOut() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           c. (etchNext () ,
                                                                                                                                char sqi[512];
waprinci[89].
                                                                                                                                                                                                                                                                                                                                                                                                                   I(( Ip .. 0 ) {
ASSERT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        char buf [256] •
                                                                                                                                                                                                                                                                                                                        db.commit ();
                        OBJECTS.CF?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     :
:::::::
                            Page 5(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                              //domainName
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DC 069498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       test ex "absdomain name: a/b> ex (const char e) d-adomain ex "\t\n":

test ex "absbue, name: a/b> ex (const char e) d-addrene[0] ex "\t\n":

test ex "absdoftest" e/b> ex (const char e) d-addrene[0] ex "\t\n":

[ori int i = 1, 1 e MADDF; iv. ]

[cri int = 1, 1 e MADDF; iv. ]

[if id-address[i]:is@mpty[]) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ** (const char *) d-saddress(i) 44 *\r\n*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      test 44 "htp", are interested in the following: (/D>\r\n\r\n"; test 44 "abyTow are interested in the following: (/D>\r\n\r\n") test 44 "abscale Lavel Category Description\r\n"; test 44 "interest...
                                                                                                                                                                                                                                                                                                                                                                                            16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Leak 4 *less than SIMM (unknown)*;
delete d:
                                                                                                                                                           test 44 "country 8" 44 location.country!
                                                                                                                                                                                                                  teat 44 "absjob (unction:4/b)" 44 "\r\n";
teat 44 "absgander" "| gender" "" |
teat 44 "abser" (" || gender" "" ')
else it gender" "" (" || gender" "" 'g')
else it e4 "female";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (unknovn) "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          teat as deselecodesiil as " "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        test es trinchono. empl.: «/b>*)
if nomployees |
test es nomployees!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4/p>/t/u.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fort i = 0; i < MAXSICS; i + )
if i d-seicCodes[i] )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Leak es plane than 35 (c. Leak es viring) (c. Leak es ebbrovonce) [[ ] selesvolume]
                                                                                            teat 44 * - the industries:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         test 44 salesvolumes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DWGRD levels
CString categorys
                                                                                                                                                                                                                                                                                                                                          test 44 '\f\n"!
tost 44 '\f\n"!
                                                                                                                                                                                                1641 44 -\r\n"
```

:::

OBJECTS.CPP

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Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // SitePage
                                                                                                                                                                                                                                                   // Couldn't find user record, we will need to
// assign a new cookie. Do not load by IP, because
// assign want this user abstring a record
// with others without cookies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if( loadbemographics && !_timedOut }
u->_getNetworkin(o(db, realTime ? &u->timedOut : 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  //
// Note: generally, this shouldn't happen.
cookie.value = 0:
          16.Jan-1996 18:10
                                                           olse {
// lookup by cookie
// lookupbaerBylo(db. cookie.value, tmout)?
if( u ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1fl badkeyErrorAd && ødNum .. badkeyErrorAd->id ireturn badkeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ad* Ad::[indSentTo[User *user, const char *[romDoc]
                                                                                                                                                                                                                                                                                                                                                                                                         DWORD adMum = queryAdSent (user, fromDoc);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fort int 1 = 0; i < nAde(); i++ ) {
Ada ad = *eds.Cecat();
iff ad.id == adNum }
return new Adlad);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               iff user-vuniqueness v. utikaly ) {
Hif defined(errlog)
                                                                                                                                                                                                                                  u->useriD - cookie.values
                                                                                                                                                                                                       u-suniqueness - uYesr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if( u -- 0 ) {
// make a default user object
                                                                                                                                                    else (
ifi defaultAdsHade ) {
   // db conn down
   v . new Userr
                                                                                             u-vuniqueness - uves:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    u.,headerDerive (requestHdr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         u.stimedout . _timedout;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        u.sip = 1p;
u.shasCookie = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      u - new User;
//u->uniqueness - uNo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if ( icookie.ishull() )
u.>hasCookie - TPUE;
                                                                                                                                                                                                                          idi - die-n
                                                                                                                                                                                                                                                   ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                idi - dis-u
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return u,
                  OBJECTS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ueer User: lookupUser(Database& db, DMOPD lp, const char *requestHdr, BOOL loadDamographics, *
                       Page 7 (9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DC 069499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Try to get domain info at least. Note: if user is uniquely // Try to get domain info at a process will create a record for the // identifiable, derive desa process will create a record for the user as soon as it gets a chance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // 100kup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // get cookie for lookup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DROPD userID - networkNodeTable.getUserID(1p, FALSE);
                                16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      const char 'cky - stratrirequesthdr, cCookie);
                                                            // don't know location, axcept country
location.state.Empty!!!
location; sipCode.Empty!!!
location; ataaCode - 0!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOOL timedOut - &db -- 0;
BOOL -tmout - realTime ? &_timedOut : 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       User* User:: lookupUserByAddress (DMORD 1p)
                                                                                                                                                                                                                                                                                                                                                                                                J. .. 'Js ?!!_JookupUserByID(D#GRD userID)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cookie.getfromHeader(ck, *1AF*);
                                                                                                                                                                                                                                                           void User::liftVer{const char *verStr}
|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return _lookupUserByID(userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        u->ip ip,
u->useriO - cookio.value,
u->timedOut - TRUE;
                                                                                                                                                                                                                                              const char cCookle() . "Cookle:";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           u-yuniqueness . uYesi
                                                                                                                                                                                                                                                                                                  int vl. 0, v2 - 0;
secantiverSer.
"4d.1d", 4v1, 4v21;
bver1 - v2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if( icookia.iaNull() } {
if( cimedout ) {
u . new User!
                                                                                                                                                  elcCodes.checkNull())
                                                                                                                                                                                                                                                                                                                                                                                                                                       Usar su - new Usars
return us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      extern defaultAdeModes
                                                                                                                                                                                                                          III ide(Ined(_DERIVE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cookie cookier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if ( user10 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 - 0. 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return 0,
                                             OBJECTS.CPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // Note: any matching required for nontargeted ads can be placed here.
// since this function is called for both targeting and untargeted
// ads.
                                                                -update exposures set exposures-exposures-1 where ad_id-';
addalueleql. id, FALSE;
atcretted! - and user_id-';
db.exer(sql);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BOOL VI
BOOL found - targetSites.Lookupfsitepage-saiteID, VII
Iff includeSites I | 1
Iff includeSites I | 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if ( trarget Pages.laEmpty!) } {
    return PALSE:
    BOOL ( out - target Pages.Lookup (sitepage.vid. v) !
    if ( include Pages) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // impressions OK?
iff nShown >- maximpressions && maximpressions !- 0 }
return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // If we have pages to target too, ok if pite // doesn't match (check if page does next). if itoud it target pages.leEmpty() | return PALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // excluding this page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Does user and site match this ad's criteria?
BOOL Adimatches[User 'user, SitePage 'sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                            addvalue(aq), id);
addvalue(aq), user-sgetID(), FALSE);
atreat(aq), ",1)";
db.exec(aq);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iff important to the si >- 1120 return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // Operating system DWORD o = 1 << (lint) user-roal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // is start time met?

[{ istarted } {
    time_t now!

iii [ime[anow] < startTime }

return FALSE!

started o TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              J/
BOOL AdiispreadOX(SitePage ** itepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if( )targetSites.lsEmpty() ) {
   if( altepage -- 0 )
   return FALSE)
                                                                                                                                                                                                                                                                                                                                                                     char aql(1024) .
.insert exposures values(";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else Iff found l
return PALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return FALSEs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         punoji ) ji
                                                                                                                                                                                                                                                                              return TRUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return TPUR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return TRUE,
                                                   MATCH. CPP
                                                             Page 1(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFIDENTIAL
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c.bind 60L_c_LONG, in, sireo(in) );
c.bind 60L_c_LONG, in, sireo(in) );
char sql[siz] - salect axposures from exposures where ad_id-",
addvalue(sql, id, FALSE);
addvalue(sql, and user_id-");
addvalue(iql, user-xgetibl);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if { | region.etate.leEmpty() && stricmp(state, region.atate) 1- 0 } return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff region.areaCode 1. 0 & areaCode 1. region.areaCode ) return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // sip myzip - tipCode.Lett(5); // atrip sip+4 for now Carring regilp - region.sipCode.Left(5); carring regilp - region.sipCode.Left(5);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ifi region.country to 6.6 country to region.country ) return FALSE;
                                                                                             18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DC 069502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return mylip .- regilp th mylip .. regilpEnd:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         goot AdiisaposuresOK(Datebeses db, User tuser)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // Returns TRUE if this location is in region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL LOCALION: 110 (CONST. PROGIONE region)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iff frequency .. 0 || idb .. 0 |
return TRUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRACE("weerid-or/n");
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                iff region.zipCode.isEmpty() | return TRUE,
                                                                                                                                                                                                                                                                                                                  linclude *etdalh.h*
Binclude *objecte.h*
Finclude */d/toolkit/db.h*
Binclude */d/toolkit/dbutil.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff regispend.leEmpty() )
return regisp -- myllp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cound - C. (etchWest () !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if ( n » (requency ) return FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              seriesMaxt . n . 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 char sq1[1024] .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ektern Ad "defaultAd;
extern Ad "badkey&rrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      seriesHeat - 0,
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                                                                                                                                                                                                              // Ad Metching!
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                                                                                                                                                                                 // match.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ine nade(),
                                                                                                                       MATCH. CPP
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Page 416)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // todor if reload ads. need to handlo the fact that
// one may still be in use and can't just delete.
// (Crit sect released during sending of file.)
//
// Ad. Ad.igetAd[Databases db, User 'user, SitePage 'page, DOOL increment)
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return FALSE;
sitepage->loadCategorles();
sitepage->loadCategorles(); i.e. ]
{ori int i = 0; i < sitepage->categorles.GatAt(i), v) }
if i sitepategorles.Lookupísitepaga->categorles.GatAt(i), v) }
return TPUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inline BCOL AdiicriterinOKiDatabasea db, User •uner, Sitefage •pagel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Do a test ad, if appropriate. Alvaya do these first so that
          18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return spreadokipage) &&
(ilstargated) ||
(matches(user, page) && exposuresOk(db, user))
);
                                                                                                                                                                                                                                                                                                                                                                                                                                           // Site and page categories
// Do last, because this is expensive (disk hit)
iff initeCategories.laEmpty() {
                                                                                                                                                                                                                                                  Chilef usor-saicCodes.getMoxt(sc) | {
   if ( pattern.matchesisc) | {
   ok - TRUE;
                                                                                                                                                                                                      SICCodes pattern - sicCodes[i];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nextAd . (nextAd . 1) \ nAds();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if ( user-suniqueness a ulikely ) return defaultad:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if( pngg -- 0 ) {
  if( badkcyErrorAd )
    return badkcyErrorAd;
    ASSEPT(FALSE);
                                                                    const int start . nextAds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUST SIMAX - 10000001
                                                                                                                                                                               return FALSE,
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Ad .adlovestSi;
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                                                                                                                                                                                                                                                                                                                                                        ict ok l
bresk:
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                            HATCH.CFP
                               Page 3(6)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // if iSP, don't know location (yet)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // hour of day / day of week / day of week it days of the ox7f ) {
                                             10-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BOOL ok - FALSE;

for int i = 0; i a nicontions; i++ ) {
   if ( user-sloenton.in( locations[i] ) }
   ok - THUE;
   break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ( (hoursolbay & () << t->tm_hour)) -= 0 | return PALSE, | | (daysolweek & () << t->tm_wday)) -= 0 | return PALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    user->location.userRelativeTime();
                                                                                                                                                                                                                  // DomainType
int userISP • 0;
int dt • (int) user•*domainType;
iff dt • (int) dtiSPOther ) (
userISP • dt • (int) dtiSPOther • 1;
dt • 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // B amployees - oxyllititt ) {
    o 1 ex user-ambuployees . o
    it (ox amployees - o) .
    return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 - 1 44 ((int) user-browser);
if (0 & browser) -- 0 l
return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                else (
0 - 1 ee dt;
11( (0 & domainfype) -- 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if labsoluteTime() } { // EST time relative time_t nov!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             t . localtimo(tnow);
                                                                                                                                                                                                                                                                                                                                      o = 1 44 userISP,
iff (o & isp) == 0 )
return PAUSE;
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if locations !- 0 ) {
if useriSP }
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return PALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iff tok )
return FALSE;
                                                                                    Iff to 4 os) .. 0 l
return FALSE:
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                                                                                                                                       // Browser
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                                                          HATCH.CPP .
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i . start:
while [ 1 ] {
    Ads ad - *ads.GetAt[1);
    Ads ad - *ads.GetAt[1);
    If | do.ype -- | JanDev & ad.criter|30K(db, user, page) } {
        | | found a good one
        adl.owestSi - &ad;

18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | do borter | do borter | lowestSI = SIMAK; | lowestSI = SIMAK; | lowestSI = I | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [ . [[ . 1] \ nAde[]!
[[ ] -- start ]
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|[{ | . . start |
| break!
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                                                                                                                                                                                                                                                                                                                      1 . (1 . 1) \ nAds();
1f( 1 ... start )
break;
                                                                                                     adlowestS1 = sads
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                                 HATCH.CPP
                                                     Page 5(6)
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// have to do ad marching for any tergoted ads
// with high SI's.
// with high SI's.
// with is a start;
while! 1.1 {
    while! 1.1 {
        Ads.GetAt(||) }
        Ads.destAt(||) }

// with this is ads.getAt(||) |
// with this is ads.getAt(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONFIDENTIAL
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while [ 1 ] for the start of 
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// you'll want to remove this to get better performance (no ad matching.
// it remnant has worst Sil·
                                                                                                                                                                                                                                                                                                                                                                            // just try every 4 to save_CPU
                                                                                                                                                                                                   // a truly rendom distribution is used for them rather than // letcovers.
static int tes[Counter!
if( .testCounter i 4 -- 0 ) { // just try every 4 to 8.
// test ad avail?
iowestS! - 1031,
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// you can quit matching as soon as you find
// one. Could be a good optimization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // for ade where we don't care about # impressions.
// biss in favor of targeted
ii( lowestsi -- 1100 )
lowestsi -- 1
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Ada do - edos GetAt[1];
I( ed. type -- Mormal at ad.isTergeted() &s.
ad.si < lovestEl &s.
ad.spresdOt(pege) &s.
ad.satches(user. pego) &s.
ad.satches(user. pego) &s.
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If (...counter a 1 % for an anount.

// for ade with no booking amount.

// allow a targeted ad to run semetimes

if (lowestiff -- 1100 %
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|[[ i -- etart }
|breek;
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adlowestil . sad?
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if i lovestäl «= 1050 )
return adlovestäl;
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1( 1 -- start )
break;
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        Page 1(3)
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[[[ stretrf[lieName, ".class.] 1. 0 ] {
    hdr .. "application/java/r\nContent-Length: ")
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iff atract (request, -infoSeak Robot*) 1- 0 }
iff atract (request, --Agent, MebCrawl*) 1- 0 }
gnt - 14
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Connection *_c,
Verb _v,
const char *_request,
const sockaddr_ins (rom) :
col_c), request (_request), v(_v)
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BOOL leSpider - FALSE:
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chas bullDUPSIZE . 2601;
CFILE f.
                                                                                                                                                                                                                                         sinclude *etdefa.h.
sinclude */d/toolkit/eock.h.
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extern bletream *outlog/
void impression()/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BALBEN COLFING Gratultons,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Criletaception (e)
                                                                                                                                                                                                                                                                                                                                                                                                                                       gif defined(_CONSOLE)
ginclude efetream.h>
rendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1{ | gnt |}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int epider . 0,
                                                                                                                                                  // request.cpp
                                                                         AEQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           end!
```

Page 2(3) 03-Jan-1996 15:53 c->writed (const char \*) hdr, hdr.Gettength() ):
i(i v \*\* GET || v \*\* POST )
c->write(bu(, n); int 1 - atrien(insettStr); memmowe(p · 1, p · 1, atrien(p·1)); memcpy(p, insettStr, l); iff isblder ) {
 if gratuitous.lsDmpty() } {
 if defined(\_CONSOLE)
 cout < gratuitous empty. (?)\n":
 cout << gratuitous fort int 1 - 0: 1 < 20: 1 · 1 [ atropy(p. gratuitous); p .. gratuitous.GetLength(); char 'p . stratribuf, '4/000Y');
if( p ) { // content length sendError(c. \*404 Not Found\*11 atrcpy(p, \*\*/BODY>\*/HTML>\*);
n \* (p \* buf) \* 14; // HEAD
n . ge(FileSizoffleHame);
if i i . o l i
sendErrorfc. \*404 Not Found");
return FALSE; | else { | else { | else | console} | else | consoles| char .p - bul!
iii insertStr ) {
 whise! ) }
 e a strchi(p. insertChar);
iii p -- 0 } ASSERTINI O 44 N 1. BUFSIZE 11 n . (.Peadibut, nursize), char temp[100];
itoa(n, temp, 10);
hdr -- temp;
hdr -- \r\n\r\n'; isspider . FALSE, return FALSE, buf Inl . Or Bendif return TRUE,

··· ,

CONTERBONTIAT

DC: 069505

```
Page 3(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            const char *p · (ileName)

I(( *p ·· '/ ')

I(( *p ·· 0 ) |

// send default

// send default

// send inder\\;acumenta\\internet address (inder\\;acumenta\);

ii ( *p ·· 0 ) |

// send ii ( *p ·· 0 ) |

// send ii ( *p ·· 0 ) |

// send ii ( *p ·· 0 ) |

// send ii ( *p ·· 0 ) |

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASSERT(PALSE);
CString ( - 'jakld(')
//CString ( - 'ki\\my documenta\\ad (ederation\\')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-Jan-1996 15:53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bif defined(_IAP)

Gering ( - .c.\\lat\\btml\\^;

Tellf defined(_MAMAGE)

CString ( - .c.\\lan\\managa\\^;
                                                                                                                                                                                                                                                                                    if(p) | | Caring(request, p · request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    eendError(c. *500 Internal Server Error*).
                                                                                                                                                                                                             const cher 'p - strchrirequest, ' '!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    endEcroric, "404 Hot Found");
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 void Request:.sandinternalError()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        f .- Pi
eandFile(f),
return,
                                                                                                                                                                                                                                                                                                                                                                                                       []] exame - request!
                                                                                                                                     old Requestineervice()
                                                                  1 TOVEST. CP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11puel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 puel
```

HIGHLY CONFIDENTIAL

```
// OUTCPIT
                                                                                                                                                                                                                                                                       Value vi
Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return hay,userin * key.fromHash;

// default identity hash * works for most primitive values

// return (UINT)[void*][DMORD]key] >> 4/
                                                                                                                                                                                                                                                                                                                                                                                    return useriD -- k.useriD && fromkash -- k.fromkash:
           29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chap-Key, Keyl, Value, Valuely sent!
                                                                                                                                                                                      // this is a test
coatic int et:
sdetine intrit { ASSENT(cr=-0); cr-:; }
sdetine QUTChiT { ASSENT(cr=-1); cr-:; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void remember (Keys k, DWORD adiD);
DWORD lookup (Keys k);
                                                                                                                                                                                                                                                                                                                                                                   goot operator--(const Key& k) const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 void setfrom(const char 'from)
                                                                           Binclude *stdsfx.h*
Linclude *objects.h*
Binclude *rememberad.h*
Finclude */d/toolkit/hashuf.h*
Binclude */d/toolkit/crit.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (roullash . hashw((from))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          eent. InitHeeNTable (52) /
                                                                                                                                                                                                                                                                             extern CriticalSection (ast;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             iff ususerID }
                                                                                                                                                                                                                                                   vold meseage (const char *)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      public:
Hemory() : sent (100)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                userib . u.sip;
                                                                                                                                                                                                                                                                                                                                                                                                                                    in. secipines piox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DWORD sdsent:
                                                                                                                                                                                                                                                                                                                                   DWORD userID:
DWORD (romNash:
                                                                                                                                                               const SI . 107313,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     privates
void purge();
                                          // remembered.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 tentos (Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cless Memory
                     ADCOURTUD.C?!
                                                                                                                                                                                                                                                                                                           struct Kay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    erruct Value
```

```
vold rememberSend(Ad •ad, User •u, const char •fromDoc)
{
29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                       // too much?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DWOPD queryAdSent (User 'u. const char · frombac)
                                                                vold Hemory::remember(Keys k, DWDRD adID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONST LIMIT - 1000 - 60 - 60 - 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if ( sent.GetCount () > SZ ) {
mcssage("remember map > SZ");
                                                  //DWORD hashiconst char .from, User
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sent.GetNextAnsocify, k. v);
if now - v.time > LIMIT )
sent.RemoveKey(k);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              k.setlD(u);
k.setfrom(fromDoc);
memory.remember(k, ad->id);
// OUTCRIT
                                                                                                                                                                                                                                                                                                                                                           value value;
if sent.Lookup(k, value) } {
return value.adSent!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            K. set From (fromDoc);
DWOPD d - memory.lookup(k);
                                                                                                                                                                                                                                                                     v.edSant - edID;
v.time - 1:GetTickCount();
gent.SetAt(k, v);
                                                                                                                                                                                                                                                                                                                                DWORD Namory: 100kup (Keyt h)
                                                                                                                                                                             static int count;
[[4 **count > 1000 ] [
count * 0;
purge[];
                              // todos nonunique hashes
                                                                                                                                                                                                                                                                                                                                                                                                                                         vold Memory: 1purge()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Crit c(fast);
// INCRIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Crit citabtl:
// INCRIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  k. set 10 (v) 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return dr
          REKEKBERAD. CPP
                                                                                                                                                                                                                                                                                                                                                                                                        return 0,
```

Page 2(2)

```
Page 310)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Ads
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LONG, aad.endrme, street(lad.shown));
LONG, aad.tlags, street(lad.shown));
LONG, aad.odysotweek, street(lad.ndrottelbay));
LONG, aad.odysotweek, street(lad.ndrottelbay));
LONG, aad.employees, street(lad.ndrottelbay)
LONG, aad.selesvolume, street(lad.slesvolume));
LONG, aad.selesvolume, street(lad.slesvolume));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ind(SU_C_LONG, tad.type, sizeo((dd.col));
ind(SU_C_LONG, tad.col);
ind(SU_C_LONG, tad.borser, sizeo((dd.col));
ind(SU_C_LONG, tad.borser, sizeo((dd.browser));
ind(SU_C_LONG, tad.domsinType, sizeo((dd.domsinType));
ind(SU_C_LONG, tad.domsinType, sizeo((dd.imp));
ind(su'tleName);
ind(su'tleName);
                                                                                                               ads.RemoveAll();
dcfaulthd - 0;
ok - loadhdsfads, 0, TPUE, TRUE, FALSE, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LONG, &&d.maxAmount, sizeof (ad.maxAmount));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bind (SQL_C_LONG, tad approved, sizeof (ad.approved));
bind (SQL_C_LONG, tad.nJumps, sizeof (ad.nJumps));
          19-Jan-1996 10:13
                                                                                 delete ada.GetAt [1];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // ... TODO!!! This function is not thread-sale.
yold recalcs!()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for( int i = 0; i < ads.CetSize(); i:= ) {
    Ads ad = *ads.CetNi(i);
    ad.calcSi();</pre>
                                                                                                                                                                                                                                                                iff ok )
message("Ad reload completed OK");
                                                                                                                                                                                                                                                                                                                                               // note: this isn't getting called yet
                                                                                                                                                                                                                                                                                                   message ("Ad reload (ailure!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  class Addursor i public Cursor
                                                                                                                                                                                                                                                                                                                                                                                                    Istmain.close(1,
                                                                                                                                                                                   bresk:
                                                                                                                                                                                                                                   S1 eep (50) r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bind (SOL
bind (SOL
bind (SOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bind (50t,
bind (50t,
bind (50t,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    publics
AdCursor()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Adarray adss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ad ad!
                    sorps.CPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ニ
                       Page 1(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // 0-all
// if Correspering, update AdiitergetSites to reflect
// iit corrections
// actives only
// include where anddate has past or where all delivered
// order from nevest to oldest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DC 069508
                                       19-Jan-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff iloedAdelede, O, TRUE, TRUE, FALSE, PALSE) | return PALSE;
                                                                                                                                                                                                                                                     1/ this ad displayed if a bad sitekey is encountered
const chedkeyAdiD - 49/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // This is temporary. Used for non-unique users.
// Eventually will be smarter about what to send to
// these users.
Ad -defaultAd - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // iff ilafmain.Open(O. FALSE, FALSE,
// ODBC:DSN-iaf/ulb-asiPMD-*.
// | | /*PALSE*/ TPUE; }
// return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Message ("waiting to reload ads...")!
Attoachpp[].sm_phainMnd.sinvalidate[]!
Attoachpp[].sm_pHainMnd.sUpdateMindow[]!
while [] |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       typedal Chrrayend .. nd .. Aunerays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BOOL activeonly, //
BOOL includeExpired,
BOOL nevestFiret,
DWGPD site10 · 01:
                                                                                                                          sinciude *ecdetw.h*
include *efermen.h*
include *objects.h*
include */d/coolkit/Jef_util.h*
sinclude */d/coolkit/Jef_util.h*
sinclude */d/coolkit/Jef_util.h*
sinclude */d/coolkit/depool.h*
                                                                                                                                                                                                                                                                                                                                                                                                              static int uctols;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL loadads (Adarreys ade.
DWORD advertiserID,
BOOL (orfargeting.
                                                                                                                                                                                                                                                                                                       extern CriticalSection (ast,
                                                                                                                                                                                                                                                                                                                                                                                 BOOL defaultAdeMode . PALSE,
                                                                                                                                                                                                                                                                                                                                          Database lafmain:
void mussage(const char *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // I(I Ilatmain.open() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           W III iopenDBPoolil 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ad .badKeyErrorAd . 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return PALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOOL OK . PALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      istmain.open();
openDBPool ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 void reloadAdeil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0001 obeus61000()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return TRUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               t .. uctofer
                                                                        // eqldb.cpp
                                                    10001.03
```

```
atreatisel, * not exists (select * from approved where site_id-*); add/aluc(sel, approvesitelb, FALSE); streatisel, * and ad_id-id|*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // If for debug, don't load. You can make this test a registry // secting if you like so that you can load debug records, of // add a cond line setting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          time t novi
rs.ad.startime . time(snow);
rs.ad.endTime . rs.ad.startTime . 60 . 60 . 24 . 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rs.ad.startime - time(thow) - 60 · 60 · 24 · 15;
rs.ad.endlime - nov · 60 · 60 · 24 · 15;
19-Jen-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if [re.jewull[12]] {
// ad server needs [ake times for nov...
if (ortargeting) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rs.ad.startTime - rs.ad.endTime - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   local ToUCT (rs.ad.atartTime);
local ToUCT (rs.ad.endTime);
                                                                                                                                                                                                                                                                      streat(sql. * advertiser.*);
addvalue(sql. advertiserID, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iff newestFirst ) {
street(sql. * order by id desc*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       localToUCT(rs.ad.etartTime);
localToUCT(rs.ad.endTime);
                                                                                          sercat f sql. * active.* };
addvalue(sql. active, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        while [ 1 ] {
// defaults in case null re.ed.(lags - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if( rs.10Null(12) ) {
                                                                                                                                                                                                                                          streat (sql. " where");
                                                                                                                                                                                                                                                                                                                                                                                                                              streat (sql. " where');
                                                        streat(sql. " where");
                                                                                                                                                        if advertiserID ) {
   if where } {
    streat(eql. " and");
    streat(eql. " and");
}
                                                                                                                                                                                                                                                                                                                                                                        street(sql. * and l:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               il( irs.fetchNext() )
break;
                                                                                                                                                                                                                                                                                                                                              iff approvediteID 1 (
                                                                                                                                                                                                                                   where . TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                               where - TPUE,
                                              where . TRUE!
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                80.000 CPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           where all delivered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // 0-all
// If forfargeting, update AdintargetSites to reflact
// If forfargeting, update AdintargetSites to reflact
// include where enddate has past or where all deliver
// include where enddate has past or where all deliver
// include where and reporting...!
// order from newest to oldest
// exclude ada the specified afte has approved
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    atrat( ad. " where (max impressions=0 or n_shown.max_impressions) and \
    atrat( ad. " where (max impressions=0 or n_shown.max_impressions) and \
    itend_time=null or end_times=getdate(!)**!
    where * TRUE;
}
                                                                                                                                                                                                   message ("db connection failed, using default_eds.txt");
defaultAdeMode - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tiget.coalTm(tlocal);
[r] local.tm hour > gmt.tm_hour }
gmt.tm_hour +* 24;
uctofs * (gmt.tm_hour * local.tm_hour) * 60 * 60;
                                   19-Jan-1996 10:13
                                                                                                                                                                                                                                                                                                                                                                                                                                        ad.exertine . time(know) . 60 . 60 . 24 . 15;
ad.exertine . now . 60 . 60 . 24 . 15;
ad.filawase . fn;
ad.jumpTo . jumpTo;
ads.add(tad);
                                                                                               itatream defadit-ci\\lan\\default_ads.txt*);
iti idefads.is_open!) |
ASSENT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // cale time sone adjustment
Crime t o Crime: GetCurrentTime();
tm gmt, local;
t.6xCmtTmligmt);
                                                                         static void makeDafaultAda(AdArrays ada)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BOOL activeOnly.
BOOL includeExpired,
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DWOAD approveSiteID
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000L loadAda(AdArrayk ada.

000L loadwertierio.

000L fortargeting.
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iii ein == 0 l
break:
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defaultAd . tad!
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char foliza);
char fumpto(128);
·fn - 0;
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C.bind( SQL_C_LONG, apagelb, sixeo((nagelb) );
c.bind(SQL_LONG, tinclude, sixeo((include) );
char sql(Si2] - select page_Id,include (rom placement_pages where ad_id=";
addValue(eq1, ad.id, FALSE);
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c.bindi SOL_CLONG, tinterest_id from placement_sitecats where ad_id-*/
c.br sql[512] - *salect interest_id from placement_sitecats where ad_id-*/
addvalue(sql. ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        c.bindiSOL_C_LONG, in, siteofin);
char sql[Si2] - "select count(*) from placement_sics where ad_id-",
addvalue(sql, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           message ("Increase AdiistrcCategories hash site");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          message ("increase Adiitargat Pages hash siza");
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int n = 0:
while c.(etchNext() ) {
   if | ad-siteGetegories.lsEmpty() } {
        ad.siteGetegories.initNeshTable());

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        c.exec(sql);
int n of the company of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ad.targetPages.SetAt (page10, TPUE);
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{or( i = 0 ) i = ads.CetSize(); i:= ] {
Ads ad = ads.CetAt();
if( ind.isTargeted() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // load site/page categories
fort i - 0; i - ads.GetSite[1; i-- ) {
Ads ad - ads.GetNt[1];
iff ind.istargated() }
                                                   // load pages to include/exclude (or( i = 0) i = ads.GetSixe(); i:- ) { Ads ad = GetAt(); i( iad -istargeted() }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C.exec(sql);
j( ;c.fetchWext() )
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CString aicr
c.bind(sict
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 itt n > 31 1 f
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                                                                                                                                                                                                                                                           DWOPD page 101
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                                                                                                                                                                                                                             continue,
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$QLDD.CPP
        PAG. 5(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ad.cargetSites.RemoveKey(altelD);

If (ad.targetSites.GitCount() -- 0 ) {

If alone map is empty, will go to all sites.

// which le wrong. Deactivate.

// which le wicong. Deactivate.

ad.startine = ad.endime = 0;

ad.startine = ad.endime = 0;

message( CString(*error, no sites allowed (or *) * ad.fileName );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BOOL include:
BOOL include:
CVEOR C.
CVEOR C.
CVENDE SOU. C. LONG, saiteid, sixed(include! );
CVEOR C.
CVENDE SOU. C. LONG, AINCLUDE, sixed(include! );
CVENDE SOU. C. LONG, AINCLUDE, sixed(include! );
CVENDE SOU. C. Solder site.
CVENDE SOURCE SITE.
AddValue(eq1, ad.1d, PALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c.bindi50L_C_LONG, salteiD, streof(eiteiD));
cher eq.[523] - "select atte_id from placement_banned where ad_id=";
addwalse(eqi, ad.id, PALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ada. Addiad);
if i defaultad -- 0 sa ad->type i= Adi:Test && iad->isfargetedi) )
defaultad -- ad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        iff fortageting ) {

// Load site eaclusions of placements. If eaclude this ad,

// Load site eaclusions is Trule, remove site (rom map. If

// and AdivinciudeSites is Trule, remove site (rom map. If

// arclude this ad, and AdivinciudeSites is PALSE, add this

// site to the map.

// site to the map.

// Adivided - ads.GetAtill?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff n > 33 | {
measge("Increase Ad:itargetSites hash elze");
                                                   19-Jan-1996 10:18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                c.enecied);

while c.fetchMart!) {
   if ad.ergyesites.lesmpty!) {
        id ad.ergyesites.nempty!) }
        ad.ergyesites.nicHashTeble(37);
        ad.includeSites - FALSE: // exclude
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ad.targetSites.SetAt (siteID, TRUE);
                                                                                                                                                         Ad sad o new Adire.ad)!
ad-scales!!ji
ii! ad-sid ap cBadKeyAdiD && (ortargeting) (
delate badKeyErrorAd!
badKeyErrorAd o ad!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int n = 0;

while (c.fetchWart()) {

if ad.tafgetSites.inftHabfable(37);

ad.tafgetSites.inftHabfable(37);

ad.includeSites - include;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // load sites to includo/exclude
fort int i = 0; i = ads.GatSize(); i.e. ) (
Ads ad = *ads.GatAt(i);
iff iad.iffregetad()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ad.targetgites.SatAtisiteID, TRUE),
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(8) 9 ·Bvd

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continues DWOAD eltelbs

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Page 1(1)
                                19-Jan-1996 10:15
                                                                                          if | ada.Cersise() -- 0 th (ortargeting ) {
// db connection down, use some default ade
makeDefaultAde [ads]:
                                                                                                                                                                                                                                                                                                                                                                                                                  return ads. Cat Size() i. 0 16 defaultAd 1. 0;
                                                                                                                                                                                                                                                                 TPACEI'no default ad\n*);
message("no default ad\n*);
                                                             $900B.CP#
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WORD country:

CRITING state, zip,

Int areaCode, out.

C. bind(stol):

Asiac Country, state, sipcode, areacode (rom placement_locations where od.

c. area(stol):

AreaCode O:

Allo:

All
                                                                        Page 7(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cureof c)
c.bind(3QL_C_LONG, An, altaof(n));
c.bind(3QL_C_LONG, An, altaof(n));
char adibit) - solact count(*) from placement_locations where ad_id-
charcadl) ad-id, FNLSE);
c.ancieq1);
if ( ic. cernheat() }
if ( ic. cernheat() }
if ( n == 0 )
                                                                                                                                  char sql[513] = 'select siccode from placement_sics where ad_id=';
eddvalue[eq], ad.id, FALSE];
c.asc(eq)) /
SICCOde '= 0 o,
while (c.fercheart) /
strippacenter() /
if ( == 0 ) count the II of SICe (irst, and allocate that number
// rodo: count the II of SICe (irst, and allocate that number
// rether than 50
= new SICCOde[n];
ad.aicCodes = 0;
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if n > 100 h
message(*>100 locations targeted*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DC 069511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // load regional (or () // load regional (or () 1 o ) ( region or ) o o // Ad and - ada:GetAt () // Ad and - ada:GetAt () // If ( ind.)sTargeted() }
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| .searcode - stp|
| .serescode - searcode|
| st - searcode| or | {
| st - searcode| or | }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         --- country - country,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1...
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rage 2(4)
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    const char *c| * stratr(bul, *Content-lengthi*);
          16-Jan-1996 14:03
                                       const Buflen - 327681

char buf(10/EM) 1

buf(11 - 0/

int - 01

const char 'p - buf 1

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int controloun - 0/

control ireadfror err - connection (0K)

while 1 1 {
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else iff err .. Connection: Timeout )
message ("empty requent, timeout");
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| || buf -- 0 | |
| undferore, -- too had Request' | |
| || buf || || -- 0 | |
| message (*empty request, buf!');
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CONFIDENTIAL
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### yeld sendKrror(Connaction ·c. const char ·msg, const char ·headerfield) c cContentLen; int len e strien(mg) e strien(cErrHeader) e strien(cErrTrailer); itoellen, buf, 10); · · · \tellen DC 069512 const char cHTPVati] - "HTPP/1.0", const char cContentLani] - "Content-Langth!", const char cErritadarij - "AhisError", const char cErritailarij - "Ahis", const char cErritailarij - "Ahis", 16-Jan-1996 14:03 coverited iconst char of a. a.GetLength() le BOOL addressOxiconst sockaddr\_ine (rom) include -/d/toolhit/sock.h. include -/d/toolhit/mapteste.h. include -/d/toolhit/tsutil.h. sinclude 'request.h' sinclude 'mgmtraquest.h' void message(const char ') ( ) vold gereurgell: include getrequet.h finclude esbles.h finclude esbles.h finclude feetles.h finclude feetlest.h Binclude "/d/toolkit/crit.h" extern CriticalSection (aet/ extern int ntietenerThreades CString . - CHTTPVeri s .. headerfleld: // IAF network return TRUE: .. ckrrfrailer it! headerField return FALSB! char but [10] , ofetreem errtogs // server.cpp BERVER. CPP Finclude rinclude

۲

```
Page 4(4)
                                                                                                                                                                                                                                                                                                                                                  for( int i = 0; i entistenerThreads; i==) {
    Sleep(100); // [dam] this is a test; sometimes it doesn't listen right, just a hunch
    Akaneginthread( listenerThread, 0 );
                                                                                                                                                                                                                                                     #if defined(_ADSVP)

errLog.open(rc/lan/errlog.txt".

errLog.open(rc/lan/errlog.txt".

filebuf::#h read);

ASSERT( errLog.is_open(! );

errLog << "...... ad server started\n"; errLog.flush(!);

#endif
      16-Jan-1996 14:03
                                                                                                                                                                                                                                  listener - new Listener(port);
i(i listener-rok() ) (
                                  #1f defined(_PORT)
int port - _PORT;
                                                                                 else
breski
                                                                                                                                                                                                                                                                                                                                                                                                                           OlDE
ASSENT (FALSE) 1
                                                                                                                                                                                                             port - 80,
                                                                                                                               return TRUEs
                                                                                                                                                                                                                                                                                                                                                                                                                                                           return TRUE,
                                                                                                                                                                                            Int
                 Page 3(4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DC 069513
                                                                                                                                                                                                                                                                                            while! 1 } {
ackedd_In from;
Connection oc . listener->waitForConnection(from);
if(, c) { .
                          16-Jan-1996 14:03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     it defined(_ADSVR)

it iopeniable() | {
    AtMeasgeBox("Error opening tables");
    return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               while( 1 ) {
    char but(1256);
    int n = c.read(but, 255);
                                                                                                                                                                                                                                                              etatic DWORD ed . GetTickCountill arandi ed. 11
                                                                                                                                                                                                                                                                                                                                                          Crit c((ast);
int x - +-orthread;
if( x > maxThreads )
maxThreade - x;
                                                                                                            Hymrkequest gric. v. r. (rom):
                                                                                                                                                                                                                                                                                                                                                                                                                   serviceRequest(c. from):
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Crit C(feet);
nthread--;
lif defined[_inf]
// idle
                                                                 Introquet gric, v. r. (rom);
Introducet gric, v. r. (rom);
Cathequet gric, v. r. (rom);
Getheducet gric, v. r. (rom);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      napstateInit();
initCountryTimeZoneTable();
iendi(
                                                                                                                                                                                                                             JINT listeneeThread(LPVOID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      If tiniculnsock!) ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                drPurge())
                                                                                                                                                                                    Liscenur "listener - 01
                                                                                                                                                                                                           tail: officeed ~ 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BOOL startServer()
```

) return 0,

1end!

gr.eervice();

SERVER. CPP

```
// add to DB

char but(1096) -

char but(1096) -

ingert users (ip, browser, bver), bver2, os, domain_type. is_proxy. is_networkdesc, ftp_tried, hs

atroat but, ... values (*);

addinvalues but, ip);

addivalue but, browser!;

addivalue but, browser!;

addivalue but, browser!;
Page 2(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         User to a new User!
UserCursor (db, vi)
c.mindli)
c.bindl SOL_C_LONG, tu->user!D, 4 );
char sql!128|;
waprint(f sq), salect (tp_tried, has_cookie, id from users where ip-ha*,
waprint(f sq), salect char i sql!PStr[ip) );
                                                                                                                                                                                                                                                                                                                                                                                                                               User* Verri_lookupUserByAddress(Database& db, DMORD ip, BOOL *timedOut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ASSEPT( name, 19Empty() is title, 19Empty() is emailAddr.19Empty() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cher buf(256); "update users set (tp_tried=1d where id=1ld", waprint(lbuf, "update users of users of tptried 7 1 : 0, users of tptried 7 is user
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               addBool(buf, proxy);
addBool(buf, isMetworkDescription);
addBool(buf, ftpTried);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void UserriupdateFTPTricd(Databaset db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vold UseriimakePermanent (Databasch db)
                                                                                                                                                                                else iff ic.fatchWeatf) } {
delete u;
u - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         addvalue(buf, os):
addvalue(buf, domainType);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1( tempUserObject() ) {
    ASSERT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ill itempusarobject() )
return:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff c.timedout 1) {
   timedout TRUE;
   delete u;
   u = 0;
                                                                                  orimedout () ) (
rimedout • TRUE:
delets or u • 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C.setTimeOut(1);
C.setTimeOut(1);
C.exec(sql);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 db.exec(bu();
db.comm(t();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return u;
                                                                                                                                                                                                                                                                                                                                                                                   return us
                                         USERS. CPP
                                                  Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      User* User::_lookupUserByID(Detabasek db, DWORD userID, BOOL *timedOut)
-{-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if( userIO == 0 ) {
    fry to get domain info at least. Note: if user is uniquely
    // fry to get domain info at least. Note: if user is uniquely
    // identifiable, derive data process will create a rocord for the
    // user as soon as it gets a chance.
    user is networkHodeTable.getUserIOIjustMatworkNumber(ip), TRUE);
    useriD = networkHodeTable.getUserIOIjustMatworkNumber(ip), TRUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cursor c(db):

cha adiliali.

charintifen.

chindienailAddr):

characiedli

documentifi!

db.commit(!)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // just gets field that aren't derivable from request header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DWOND userib . networkHodeTable.getUserID(1p. FALSE);
                                                                      19-Dec-1995 16:52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bind( 50L_C_LONG, &u->(tpTrled, sizeo(1800L) );
bind( 50L_C_LONG, &u->hssCookie, sizeo((800L) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UserCursor (Databased db. User ._u) . Cursor (db).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void User::lookupAncillaryinfo(Databases db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  user. User: 1 ookupusersyAddress (DMORD 1p)
                                                                                                                                                                                                                                                                                                                                                                       / implementation for hash tables userID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return _lookupUsarRy1D(usarID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               class VeerCursor , public Cursor
                                                                                                                                                                                                                                                                   sinclude -/ditoolhit/db.h.
Binclude -/d/toolhit/lef_util.h.
sinclude -/d/toolhit/dbutil.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                User ou . new User,
UserCursor c(db. u);
c.minimalBind();
char eq((128);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              User to a new Users
return or
                                                                                                                                                                                                                          sinclude estde(A.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ICC ceering )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  )
(a)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10. 1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return 0,
                                                                                                                                                // weere.cpp
                                                                                              USERS.CPP
```

users.CPP

add8001[buf, hasCookie, FALSE];

atreat[buf, "]\*];

lif db.doineerk[buf] -- 1 } {
 Correct cids];
 correct cids];
 correct cids];
 correct cids];
 correct cids];
 correct cids];

atrepy [buf, "eslect max[id] from users where [p-"];

atrepy [buf];
 correct[buf];
 correct[buf];

correct[buf];

db.commit();

db.commit();

Page 3(3)

HIGHLY CONFIDENTIAL

```
char buf(512) . 'Insert sitepages(junk, keyname, site, categorized) values(''.'')
addvalue(buf, fint) siteiD);
addvalue(buf, fint) sateiD);
atreat(buf, i);
if db.cace(buf, i);
fyACE(error adding sitekey\n');
CString a · sql: ''
                                                                                                                                                                                                                                     int approved - 0,
Curan (db): 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             e.bind(SQL_C_LQMG, sid, 4);
srcpy(but, "salect id from sitepages where keyname.");
addvalue(buf, keyname, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            p . 0.1
if( idefaultAdsMode )
imegaage( SSreing(*unknown aite: *) • (rom ).
                                                                                                                             // bidn't find the page. Add page if airc is correct.
{
20-Jan-1996 10:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vold SitePageriadd[Databases db. const char *kcyname)
                                                                                                                                                                                                 CString siteKey(from. q · from):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               p.sadd(db, key);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 If ( 1C. fetchNext () )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a .. buf,
ASSERT (FALSE);
TPACE(s);
message(s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else (
delete pi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cursor cidbl,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c.exec(buf) ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return p;
                        SITEPAGE.CPP
                                 Page 1(2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SitePage* SitePage::lookupPage|Database& db. const char *from, const char *requestNdr!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cursor c:
c.bind(60L_C_LOMO, sinterestiD, sissof(interestiD));
che sqli0501 - select interests_id from page_categories where page_id-";
sddvalue(60), id, FALSE);
strest(eq), union all select interests_id from site_categories where site_id-");
sddvalue(eq), siteID, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DC 069516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *salect id.aite.categorised from sitepages where keypame**!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if ( key. GetLangth() > 64 )
key - key. Leite (64); // truncate to column width
                                                             20-Jan-1996 10:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cursor c(db);
c.bind(50L_C_LONG, sp.sid, 4);
c.bind(50L_C_LONG, sp.sitesio, 4);
c.bind(50L_C_LONG, sp.sesegorized, 4);
char sqll[1024]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // from hey format: altehey/docname
iff from -- 0 |
return 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            construction of strientfrom, ''');
[[[ q == 0 | | strientfrom | > 75 | ]
return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    while ( C. (etchWest () ) {
    categoriee.Add(interest(D))
                                                                                                                                                                                                             include estdatain"
include objecté.h"
include objecté.h"
include o'd/tooblitt/de.h"
include o'd/tooblitt/lef_util.h"
include o'd/tooblitt/lef_util.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sitepage op . new Sitepages
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold SitePage::loadCategories()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C. GAGC (MOT) (
                                                                                                                                                                                                                                                                                                                                                                      void message (const char 's)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 extern DOOL defaultAdaMode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    id - 0;
eitelD - 0;
calegorized - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161 -trom -- 0 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DWORD Interest10,
                                                                                                                                                                                                                                                                                                                                                                                                                                SicePage::SitePage()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CString hey!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C.exec(eq1);
                                                                                                                                         // altepage.cpp
//
                                                                                     SITEPAGE.CPP
```

Page 3(3)

```
Page 2(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char buf [256];
vaprintf lbuf, "tatd.gif", (const char ") [ileHnmm.Lcft( [ileMamm.GctLength() " 4), seriesMe*
return buf;
                                                                                                    DWORD span . time [at] . startTime; if [ span -- 0 ] span - 1:
         19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if( timagoSarias || aericaNext <* 1 )
return (lleName;</pre>
                                                    timo t t)
Duomb totalspan - endTime - etartTime;
If totalspan - 0;
totalspan - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        raturn gifeRootDir . getFileName();
                                                                                                                                                                                                                                                                                                                                                                                                                              daysofweek - 0,7fr
started - PALSEr
(laga - Production | SpreadEvenly:
                                                                                                                                                   (double) (fidouble) nShown / (double) span / cocalSpan) maximpressions) * 1000);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   domaintype - DefautHask,
inp - DefautHask,
hoursofbay - Osffell
Employees - DefaultHask,
gendor - DefaultHask,
seriesMext - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CString AdiigetFileName()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 siccodes • 0;
nSICCodes • 0;
frequency • 0;
imageSeries • PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CString Adii(ullName()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neximpressions • 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ## Idefined (_ADSVP.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IncludeSites - 01
                                                                                                                                                                                                                                                                                                         // iff mShown 1 0 - // // update Si // Calcsiti. // )
                                                                                                                                                                                                                                   void Adiishown()
                                                                                                                                                                                                                                                                                                                                                                                              . .. () py::yq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IncludePages
                                                                                                                                                                                                                                                                              II Shown + 1
                     Ab.CP
                         Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neidd maximpressions), mShown(ad.nShown),
d.nlocations), mSiCcolon(ad.nBiCColon),
froquency), imagoSericu(ad.imagoSericu),
d.seriesHeat), startims[ad.etertime], endtime[ad.endTime],
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CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aliad.el), [lags[ad.[lags],
houreo[bay[ad.houreo[bay], dayeo[week[ad.dayeo[week],
namployees[ad.nomployees], esleevolume[ad.es]eslesvolume],
gender[ad.gender], addeeription[ad.adoescription],
maxAmount [ad.maxAmount], srpNumber[ad.asPoNumber],
active[ad.active], includeSites[ad.includeSites],
includePages[ad.includePages], approved[ad.approved],
nJumps[ad.nJumps]
                                    19-Jan-1996 15:SA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ad. (ilename). jumpto(ad.jumpTo).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DC 069517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 riint i . 0, i < nSiCCodes; i.. ) {
sicCodes[i] . ad.sicCodes[i];
                                                                                                                                                                                                                                                                                                            const (String gileRootDir - 'c:\\lan\\ads\\''
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 locations = 0;

iff nicestions | {
    locations - nw Region[nicestions];
    locations - nw Region[nicestions];
    corf int i = 0; i < nicestions[i];
    locations[i] = ad.locations[i];
                                                                                                                                                                                                                                                                                                                                                                                                                                            // Ad
                                                                                                                                                                                                                                                                                                                                             alf idefined(_DERIVE)
int nade() { return ade.CetSire(); }
tendif
                                                                                                                                                                                                                           linclude "/d/toolkit/db.h"
linclude "/d/toolkit/dbutil.h"
linclude "/d/terive/dqidorivo.h"
linclude "/d/termorrivo/eig.h"
linclude "romemborad.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff maximpressions -- 0 ) return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                acripspaces (filename),
acripspaces (jumpto),
                                                                                                                                                                                                                                                                                                                                                                                                              extern Database lafmains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          delete(| locations/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AdiiAdiconst Ads ad)
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100 4(9)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 but, salesvolume 1:
but, addescription 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    buf, frequency ):
buf, imageSeries ):
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buf, domaintype 1:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Con't update max_impressions if this is a barter ad. P.EP.EKE redits the placement so we don't want to overwrite the larger credits (type in Barter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    addvalue ( buf. a
addvalue ( buf. a
addvalue ( buf. f
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         19-Jan-1996 15:58
                                                                                                                     Cursor Cr
C.bind SQL_C_LONG, 1adiD. 4 );
strepy! buc. "select max(id) from placements" );
c.sece(but );
c.ferchlext(i);
iafmain.commit();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Pe-determine if the ad is targeted double deendcost . CalculateCostPerAdil!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strcpy! but, *update placements set * 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // To update an ad, we delete the dainting
// and re-book it.
|| (|remove( FALSE |) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          streat ( buf, "max_impressions." );
                                                                                                                                                                                                                                                                                                                                                                                                                                   returni AddPlacementTables( adiD ) };
                                                           // Cat the 10 of the newly added ad int adio - 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               buf, "image_serios-" );
buf, "(lage-" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hours of day. 1:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              buf, "domainType-" 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            employees. 11
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i( startime)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      but, "browser." );
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char bufil024];
char extime[ 10 l;
                                                                                                                                                                                                                                                                                                                                                          . ASSERT( 0 );
return( FALSE );
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                                                                                                                                                                                                                                                                                                                (dibail) 11
                      AD.CPP
                           Page 3(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           atrcpy( buf, "insert placementa(jumpto,max_impressions.type.ps.browser.domainType.lap,frequalizacycles.domainType.lap,frequalizacycles.gomaintype.lap,frequalizacycles.gomaintype.gomaintype.lap,frequalizacycles.gomaintype.gomaint.gomaint.gomaint.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gomaintype.gom
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        etricime( estime, 9, *tm/td/ty*, gmtime( setertime) );
etrest but, °, 1;
eddvelue( but, estime, PALSB );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   atritime(.extime, 9, *\m/\d/\y*, gmtime( &cndTime ) }
atriat( buf, ".");
addvalue( buf, atrime, PALSE );
                                                                                                                                                                                                                                                                                                                                           // If this is a barter ad, set max_impressions - to 1
if (type -- Barter)
                                          19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            addvalue( buf, approved );
addvalue( buf, filleHame, FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (atartTime)
atreat( buf, ", start_time" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                maximpressions ):
type ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  daysofweek 1:
nEmployees 1:
salesvolume 1:
adosscription 1:
                                                                                       BOOL AdiiBook! DWORD advertiserID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ir (ietmein.exec( but ) i- 1) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if jandTime)
etresti but, ", and time" ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           imagaSeries );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      soursolbay 11
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domainType 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            etreet but. ") values!" );
                                                                                                                                                                                                                                                                                                                                                                                                                                maximpressions - 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JumpTo 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSERTE 0 1, returni PALSE 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             strest! buf. ")" );
                                                                                                                                                                                                                                                       ASSERT( 0 ),
return( PALSE ),
                                                                                                                                         char buf | 1024 (; char exfime | 10 1;
                                                                                                                                                                                                          if (ladvertiserID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               addvaluet buf. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (endTime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (startTimo)
                                                      8.0
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waprint( buf, "insert placement sitestad id, site_id, include) values[1d, 1d, 1d]".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       waprint( buf, "insert placement_interests(ad_id.interest_id) values(id.id)". adip, dwinterestID };
                                                                                                                                                                                                                                                                                                                                                                                 vaprint(| buf. "insert placemont_sitecata(ad_id.interest_id) values(1d,1d)".
adip, dwinterest10 };
                                                                                                                                   waprint(| buf. "insert placement_sicated_id.elccode) values(1d, '\a')".
adiD, sicCodes( nLoop |.asTaxt() | )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      siteCategories. GetNextAssoc( pos. dwinterestiD. bJunk );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interests.GetNextAssoc( pos, dwinterestiD, bJunk ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             targetSites. GetNextAssoci pos. dwSiteID. bJunk 1;
19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1.41 main.caccf but 1 (* 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (latmain.exect but ) to 1) {
                                                                                                                                                                                                                                                                                                                                                                                                                                if (latmain.oxecf but 1 1- 1)
                                                                                                                                                                                 if listmain.exect but 1 to 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ASSERT( 0 );
bRc = FALSE;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASSERT( 0 );
bpc = fALSE:
break!
                                                                                                                                                                                                             ASSERT( 0 );
brc • FALSE;
breek;
                                bRc • FALSE!
break!
                                                                                                                                                                                                                                                                                                                                               Sunk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               while (pos)
                                                                                                                                                                                                                                                                                                                                                             while (pos)
                 AD.CPP
                  Page 5(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CONFIDENTIAL
                                                           serfelmel artime, 9, "am/1d/1y", gmtime( astarttime ) ); addvalue( buf, satime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DC 069519
                                                                                                                                                                                          arritime arrime. 9. "im/ld/ly", gmtime ( sendTime ) ), addValue ( buf. arrime. PALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (locations intoop).country) addvalue(but, locations intoop).country); if (locations intoop).state lashpky(l) addvalue(but, locations intoop).state ); addvalue(but, locations intoop).state ); addvalue(but, locations intoop).stpCode.isEmpty(l) addvalue(but, locations intoop).stpCode);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                addvalue! but, locationsintoopl.sreaCode li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for (int nloop • 0; nloop • nlocations; nloop••)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             stropy( but, .insert placement_locations(*');
                              19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (locations)nloop).country)
streat buf. "country" );
if (locations)nloop) state.isEmpty(!)
if (locations)nloop).isfoode.isEmpty(!)
if (locations)nloop).areacode:
if (locations)nloop).areacode
if (locations)nloop).areacode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            streat( buf, "ad_id) values(" )?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BOOL AdiiAddPlacementTables( DWORD adID )
                                                                                                                                                                                                                                                                                                                                                                                                     returni AddPlacementTablem( id ) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            it flotmain.exect but 1 1- 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            addvalue( buf, adib, FALSE );
atreat( buf, ")" );
                                                                                                                                                                                                                                                                                                                                  if (istmain.exect but ) is 1)
                                                                                                                                street ( buf. . (null)." )!
                                                                                                                                                                                                                                                                                                etrcat | buf. "where id=" );
addValue | buf. id. PALSE );
                                                                                                                                                                                                                                                             streat ( buf. '(null)' )!
                                                                                                                                                                   ecreat ( buf, "and_time.");
if (endTime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSERTE O 11
                                                                                                                                                                                                                                                                                                                                                             ASSENT( 0 );
return( FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                             return( FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char buff1024);
BOOL bRc - TRUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           while (TRUE)
                                                                                                                   =
                                              6.0
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Page 1(3)
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           daysofweek - Da7ft
flags - Production | SpreadEventy:
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nEmployees - DefaultMask;
salesvolume - DefaultMask;
gender - DefaultMask;
includefages - 0;
includefages - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domainType - DefaultMask:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . DefaultMask;
                                                                                                                                                                                                                                                                                         ASSERTÍO )!
DRC - FALSE!
Dreak!
                                                                                                                                                                                                                                                                                                                                                                                                     irequency - 01
imageSeries - FALSE!
maximpressions - 01
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                                                                                                                              bRc - FALSE:
break;
                                                                                                                                                                                                   ASSERT( 0 );
bpc • FALSE;
bresk;
                                              ASSERT( 0 );
bec • FALSE;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      os - DefaultMask;
browser - Default
                                                                                                                                                                                                                                                                                                                                               istmain.commit();
return( bRc );
                                                                                                                        ASSERT( 0 ),
                                                                                                                                                                                                                                                                                                                                                                                                                          type - Normal;
domainType - 0;
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          AD.CFP
           Page 7(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HIGHLY
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                                                                                                                           waprintf( but, *insert placement_pages(ad_id.page_id.include) values(id.id.id)*, adip, dwPageib, includePages );
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                                                                 targetPages.GetMextAssoc( pos. dwPage1D, bJunk );
                 19-Jan-1996 15:58
                                                                                                                                                                                                                                                             gool AdiiRemove ( gool bRemoveFromPlacements
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brc = FALSE;
break;
                               ASBERTÍ O 17
brc = FALSE;
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brc - palse:
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brc - Falski
breek! |
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BOOL bRc - TAUE;
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In the confidence of the co